

SCT-AXT

SCT Alien Crosstalk Adapter



- **Performs Alien Crosstalk certification for copper 10GBASE-T Ethernet network deployment.**
- **Compliant with all industry standards.**
- **Measurement capabilities include PSANEXT, PSANEXTavg, PSAACRF and PSAACRFavg.**
- **Adding a single pair of SCT-AXT adapters is all that is needed for certification.**
- **LCMD simplifies 10GBASE-T certification by integrating alien crosstalk and pair to pair result management and report generation**

DESCRIPTION

With the introduction of 10 Gigabit Ethernet over copper, new alien crosstalk certification measurements are required by the 10GBASE-T standards to ensure performance. Alien crosstalk, unlike pair to pair crosstalk, is an unwanted noise signal coupling from one channel or permanent link to another. The new measurements are Power Sum Alien NEXT (PSANEXT), Average Power Sum Alien NEXT (PSANEXTavg), Power Sum Alien ACRF (PSAACRF) and Average Power Sum Alien ACRF (PSAACRFavg). With the addition of the SCT-AXT adapter to the SCT2000 product line, Megger has created a fully compliant 10GBASE-T certification solution for testing both alien crosstalk and pair to pair transmission performance. Now you can quickly and confidently certify 10GBASE-T networks using your SCT2000.

10GBASE-T Compliance

The SCT-AXT adapters together with the SCT2000 provide a fully compliant solution for certifying 10GBASE-T deployments. The SCT-AXT solution complies with all existing and draft 10GBASE-T standards such as TIA TSB-155, TIA-568-C.2, IEEE 802.3an, ISO TR 24570, ISO 11801 Class Ea and EN50173 Class Ea

Simplifying 10GBASE-T Certification

Certifying a 10GBASE-T network begins with certifying the pair to pair transmission performance of all links intended for 10GBASE-T operation. These results are downloaded to Megger's LAN Certification Management Software (LCMD) and analyzed to identify the links that require

alien crosstalk verification. After the links are identified alien crosstalk certification testing is performed. Megger's solution simplifies alien crosstalk certification testing by replacing communication modules, permanent link adapters and channel adapters with a single pair of SCT-AXT adapters. The SCT-AXT adapters allow the SCT2000 to perform unit to unit synchronization while measuring permanent link or channel alien crosstalk.

Integrating all aspects of alien crosstalk testing including the AXT software module, alien crosstalk and pair to pair result management and alien crosstalk and pair to pair report generation into LCMD greatly simplifies 10GBASE-T certification. LCMD displays pair to pair and alien crosstalk result status for multiple links on a single page. LCMD generates reports for either alien crosstalk or pair to pair measurements with one click of the mouse. LCMD's integrated AXT software module makes testing alien crosstalk and displaying detailed alien crosstalk results easy and intuitive eliminating the need for a separate alien crosstalk software program.

Megger's integrated AXT software module simplifies the selection of disturbed and disturbing links, enabling or disabling disturbing links, changing standards and analyzing results. LCMD together with the AXT software module automatically stores all alien crosstalk results and instantly re-calculates results if any changes are made. Megger's alien crosstalk solution simplifies 10GBASE-T certification and eliminates result management confusion caused by a separate alien crosstalk software program.

Reliability

The SCT-AXT adapter is rugged. It is designed to withstand the physical abuse that occurs while testing networks. The SCT-AXT adapter when inserted into a SCT device remains fully protected within the adapter well. The SCT-AXT adapter connections to the network are protected from electrical hazards. The SCT-AXT adapter uses the revolutionary “Connector-Less” interface making the measurement connection practically immune to electrical and physical abuse, eliminating down time and repair costs. The SCT-AXT adapter connects to the link using either user patch cords or high quality commercially available shielded Category 6a / Class Ea test cords reducing cost, and downtime without sacrificing performance.

FEATURES AND BENEFITS

- Megger’s Alien Cross Talk certification kit is the most cost effective, intuitive and easy to use 10GBASE-T certification solution on the market.
- The SCT-AXT solution is fully compliant with all existing and draft 10GBASE-T standards.
- The Megger solution simplifies Alien Cross Talk certification replacing communication modules, permanent link adapters and channel adapters with a single pair of SCT-AXT adapters.
- The SCT-AXT adapter connects to the link using high quality commercially available Category 6a / Class Ea patch cords reducing cost, and downtime without sacrificing performance
- Megger’s solution integrates all aspects of alien crosstalk testing, alien crosstalk and pair to pair result management and alien crosstalk and pair to pair report generation into LCMD greatly simplifying 10GBASE-T certification
- Megger’s AXT software module makes victim link selection, adding or subtracting disturbing links, changing standards or analyzing detailed data, simple and intuitive.
- LCMD stores all measured alien crosstalk data and instantly re-calculates and stores results if a change is made.
- LCMD integrates alien crosstalk and pair to pair result management, simplifying analysis and report generation while eliminating any confusion over which links are alien crosstalk certified.
- The SCT-AXT adapter is small, rugged and designed with the revolutionary “Connector-Less” interface making it practically immune to electrical and physical abuse.

ORDERING INFORMATION

Item (Qty)	Cat. No.
SCT-AXT (Set of two Alien Crosstalk adapters)	1000-984



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